

PATENT COOPERATION TREATY

From the INTERNATIONAL BUREAU

PCT

NOTIFICATION OF ELECTION

(PCT Rule 61.2)

To:

Commissioner
US Department of Commerce
United States Patent and Trademark
Office, PCT
2011 South Clark Place Room
CP2/5C24
Arlington, VA 22202
ETATS-UNIS D'AMERIQUE
in its capacity as elected Office

Date of mailing: 01 March 2001 (01.03.01)	
International application No.: PCT/IL99/00467	Applicant's or agent's file reference: 064/01152
International filing date: 26 August 1999 (26.08.99)	Priority date:
Applicant: KINROT, Uri et al	

1. The designated Office is hereby notified of its election made:

☒ in the demand filed with the International preliminary Examining Authority on:
10 July 2000 (10.07.00)

☐ in a notice effecting later election filed with the International Bureau on:

2. The election ☒ was
☐ was not

made before the expiration of 19 months from the priority date or, where Rule 32 applies, within the time limit under Rule 32.2(b).

The International Bureau of WIPO 34, chemin des Colombettes 1211 Geneva 20, Switzerland Facsimile No.: (41-22) 740.14.35	Authorized officer: J. Zahra Telephone No.: (41-22) 338.83.38
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TENT COOPERATION TREA

PCT

NOTIFICATION OF THE RECORDING
OF A CHANGE(PCT Rule 92bis.1 and
Administrative Instructions, Section 422)

From the INTERNATIONAL BUREAU

To:

FENSTER, Paul
Fenster & Company Patent
Attorneys, Ltd.
P.O. Box 10256
49002 Petach Tikva
ISRAËL

Date of mailing (day/month/year) 15 February 2002 (15.02.02)	IMPORTANT NOTIFICATION
Applicant's or agent's file reference 064/01152	
International application No. PCT/IL99/00467	International filing date (day/month/year) 26 August 1999 (26.08.99)

1. The following indications appeared on record concerning:

☒ the applicant

 ☐ the inventor

 ☐ the agent

 ☐ the common representative

Name and Address GOU LITE LTD. 85 Medinat Hayehudim Herzelia Business Park 46766 Herzelia Israel	State of Nationality IL	State of Residence IL
	Telephone No. 972 9 970 1800	
	Facsimile No. 972 9 970 1801	
	Teleprinter No.	

2. The International Bureau hereby notifies the applicant that the following change has been recorded concerning:

☐ the person

 ☒ the name

 ☐ the address

 ☐ the nationality

 ☐ the residence

Name and Address OTM TECHNOLOGIES LTD. 85 Medinat Hayehudim Herzelia Business Park 46766 Herzelia Israel	State of Nationality IL	State of Residence IL
	Telephone No. 972 9 970 1800	
	Facsimile No. 972 9 970 1801	
	Teleprinter No.	

3. Further observations, if necessary:

4. A copy of this notification has been sent to:

<input checked="" type="checkbox"/> the receiving Office	<input type="checkbox"/> the designated Offices concerned
<input type="checkbox"/> the International Searching Authority	<input checked="" type="checkbox"/> the elected Offices concerned
<input type="checkbox"/> the International Preliminary Examining Authority	<input type="checkbox"/> other:

The International Bureau of WIPO 34, chemin des Colombettes 1211 Geneva 20, Switzerland Facsimile No.: (41-22) 740.14.35	Authorized officer Sean Taylor Telephone No.: (41-22) 338.83.38
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PATENT COOPERATION TREATY

PCT

NOTIFICATION OF THE RECORDING
OF A CHANGE(PCT Rule 92bis.1 and
Administrative Instructions, Section 422)

From the INTERNATIONAL BUREAU

To:

FENSTER, Paul
Fenster & Company Patent
Attorneys, Ltd.
P.O. Box 10256
49002 Petach Tikva
ISRAËL

Date of mailing (day/month/year) 15 December 2000 (15.12.00)	IMPORTANT NOTIFICATION
Applicant's or agent's file reference 064/01152	
International application No. PCT/IL99/00467	International filing date (day/month/year) 26 August 1999 (26.08.99)

1. The following indications appeared on record concerning:		
<input checked="" type="checkbox"/> the applicant	<input type="checkbox"/> the inventor	<input type="checkbox"/> the agent <input type="checkbox"/> the common representative
Name and Address OTM TECHNOLOGIES, LTD. 11 Bouboulinas Street 1060 Nicosia Cyprus	State of Nationality CY	State of Residence CY
	Telephone No. +357 2 754 090	
	Facsimile No. +357 2 751 648	
	Teleprinter No.	
2. The International Bureau hereby notifies the applicant that the following change has been recorded concerning:		
<input type="checkbox"/> the person	<input checked="" type="checkbox"/> the name	<input checked="" type="checkbox"/> the address <input checked="" type="checkbox"/> the nationality <input checked="" type="checkbox"/> the residence
Name and Address GOU LITE LTD. 85 Medinat Hayehudim Herzlia Business Park Herzlia 46766 Israel	State of Nationality IL	State of Residence IL
	Telephone No. 972 9 970 1800	
	Facsimile No. 972 9 970 1801	
	Teleprinter No.	
3. Further observations, if necessary:		
4. A copy of this notification has been sent to:		
<input checked="" type="checkbox"/> the receiving Office	<input type="checkbox"/> the designated Offices concerned	
<input type="checkbox"/> the International Searching Authority	<input checked="" type="checkbox"/> the elected Offices concerned	
<input checked="" type="checkbox"/> the International Preliminary Examining Authority	<input type="checkbox"/> other:	

The International Bureau of WIPO 34, chemin des Colombettes 1211 Geneva 20, Switzerland	Authorized officer A. Karkachi
Facsimile No.: (41-22) 740.14.35	Telephone No.: (41-22) 338.83.38

From the
INTERNATIONAL PRELIMINARY EXAMINING AUTHORITY

26 -11- 2001

FENSTER & Co

To:

FENSTER & COMPANY PATENT
ATTORNEYS, LTD
P.O.Box 10256
Petach Tikva 49002
ISRAEL

PCT

NOTIFICATION OF TRANSMITTAL OF
THE INTERNATIONAL PRELIMINARY
EXAMINATION REPORT
(PCT Rule 71.1)

Date of mailing
(day/month/year) 21.11.2001

Applicant's or agent's file reference
064/01152

IMPORTANT NOTIFICATION

International application No.
PCT/IL99/00467

International filing date (day/month/year)
26/08/1999

Priority date (day/month/year)
26/08/1999

Applicant
GOU LITE LTD. et al.

1. The applicant is hereby notified that this International Preliminary Examining Authority transmits herewith the international preliminary examination report and its annexes, if any, established on the international application.
2. A copy of the report and its annexes, if any, is being transmitted to the International Bureau for communication to all the elected Offices.
3. Where required by any of the elected Offices, the International Bureau will prepare an English translation of the report (but not of any annexes) and will transmit such translation to those Offices.

4. REMINDER

The applicant must enter the national phase before each elected Office by performing certain acts (filing translations and paying national fees) within 30 months from the priority date (or later in some Offices) (Article 39(1)) (see also the reminder sent by the International Bureau with Form PCT/IB/301).

Where a translation of the international application must be furnished to an elected Office, that translation must contain a translation of any annexes to the international preliminary examination report. It is the applicant's responsibility to prepare and furnish such translation directly to each elected Office concerned.

For further details on the applicable time limits and requirements of the elected Offices, see Volume II of the PCT Applicant's Guide.

Name and mailing address of the IPEA/

 European Patent Office
D-80298 Munich
Tel. +49 89 2399 - 0 Tx: 523656 epmu d
Fax: +49 89 2399 - 4465

Authorized officer

Marra, E
Tel. +49 89 2399-7235



PATENT COOPERATION TREATY

PCT

NOTICE INFORMING THE APPLICANT OF THE COMMUNICATION OF THE INTERNATIONAL APPLICATION TO THE DESIGNATED OFFICES

(PCT Rule 47.1(c), first sentence)

From the INTERNATIONAL BUREAU

To:
FENSTER, Paul
Fenster & Company Patent
Attorneys, Ltd.
P.O. Box 10256
49002 Petach Tikva
ISRAEL

Date of mailing (day/month/year) 01 March 2001 (01.03.01)		IMPORTANT NOTICE	
Applicant's or agent's file reference 064/01152			
International application No. PCT/IL99/00467	International filing date (day/month/year) 26 August 1999 (26.08.99)	Priority date (day/month/year)	
Applicant GOU LITE LTD. et al			

1. Notice is hereby given that the International Bureau has communicated, as provided in Article 20, the international application to the following designated Offices on the date indicated above as the date of mailing of this Notice:
AU, KP, KR, US

In accordance with Rule 47.1(c), third sentence, those Offices will accept the present Notice as conclusive evidence that the communication of the international application has duly taken place on the date of mailing indicated above and no copy of the international application is required to be furnished by the applicant to the designated Office(s).

2. The following designated Offices have waived the requirement for such a communication at this time:
AE, AL, AM, AP, AT, AZ, BA, BE, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, EA, EE, EP, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, OA, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, UZ, VN, YU, ZA, ZW
The communication will be made to those Offices only upon their request. Furthermore, those Offices do not require the applicant to furnish a copy of the international application (Rule 40.1(a-bis)).

3. Enclosed with this Notice is a copy of the international application as published by the International Bureau on **01 March 2001 (01.03.01)** under No. **WO 01/14231**.

REMINDER REGARDING CHAPTER II (Article 31(2)(a) and Rule 54.2)

If the applicant wishes to postpone entry into the national phase until 30 months (or later in some Offices) from the priority date, a demand for international preliminary examination must be filed with the competent International Preliminary Examining Authority before the expiration of 18 months from the priority date.

It is the applicant's sole responsibility to monitor the 18-month time limit.

Note that only an applicant who is a national or resident of a PCT Contracting State which is bound by Chapter II has the right to file a demand for international preliminary examination.

REMINDER REGARDING ENTRY INTO THE NATIONAL PHASE (Article 22 or 39(1))

If the applicant wishes to proceed with the international application in the national phase, he must within 20 months or 30 months, or later in some Offices, perform the acts referred to therein before each designated or elected Office.

For further important information on the time limits and acts to be performed for entering the national phase, see the Annex to Form PCT/IB/301 (Notification of Receipt of Record Copy) and Volume II of the PCT Applicant's Guide.

The International Bureau of WIPO 34, Chemin des Colombettes 1211 Geneva 20, Switzerland	Authorized officer: J. Zahra
Facsimile No. (41-22) 740.14.35	Telephone No. (41-22) 338.83.38

REC'D 23 NOV 2001

WIPO PCT

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Article 36 and Rule 70)

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Applicant's or agent's file reference 064/01152		FOR FURTHER ACTION		See Notification of Transmittal of International Preliminary Examination Report (Form PCT/IPEA/416)
International application No. PCT/IL99/00467		International filing date (day/month/year) 26/08/1999	Priority date (day/month/year) 26/08/1999	
International Patent Classification (IPC) or national classification and IPC B65H7/14				
Applicant GOU LITE LTD. et al.				

1. This international preliminary examination report has been prepared by this International Preliminary Examining Authority and is transmitted to the applicant according to Article 36.



2. This REPORT consists of a total of 6 sheets, including this cover sheet.

☒ This report is also accompanied by ANNEXES, i.e. sheets of the description, claims and/or drawings which have been amended and are the basis for this report and/or sheets containing rectifications made before this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions under the PCT).

These annexes consist of a total of 6 sheets.

3. This report contains indications relating to the following items:

- I ☒ Basis of the report
- II ☐ Priority
- III ☐ Non-establishment of opinion with regard to novelty, inventive step and industrial applicability
- IV ☐ Lack of unity of invention
- V ☒ Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement
- VI ☐ Certain documents cited
- VII ☒ Certain defects in the international application
- VIII ☒ Certain observations on the international application

Date of submission of the demand 10/07/2000	Date of completion of this report 21.11.2001
Name and mailing address of the international preliminary examining authority:  European Patent Office D-80298 Munich Tel. +49 89 2399 - 0 Tx: 523656 epmu d Fax: +49 89 2399 - 4465	Authorized officer Pollet, D Telephone No. +49 89 2399 7516 

**INTERNATIONAL PRELIMINARY
EXAMINATION REPORT**

International application No. PCT/IL99/00467

I. Basis of the report

1. With regard to the **elements** of the international application (*Replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to this report since they do not contain amendments (Rules 70.16 and 70.17)*):

Description, pages:

1-5,9-11 as originally filed
6-8 with telefax of 25/04/2001

Claims, No.:

1-27 with telefax of 25/04/2001

Drawings, sheets:

1/8-8/8 as originally filed

2. With regard to the **language**, all the elements marked above were available or furnished to this Authority in the language in which the international application was filed, unless otherwise indicated under this item.

These elements were available or furnished to this Authority in the following language: , which is:

- ☐ the language of a translation furnished for the purposes of the international search (under Rule 23.1(b)).
☐ the language of publication of the international application (under Rule 48.3(b)).
☐ the language of a translation furnished for the purposes of international preliminary examination (under Rule 55.2 and/or 55.3).

3. With regard to any **nucleotide and/or amino acid sequence** disclosed in the international application, the international preliminary examination was carried out on the basis of the sequence listing:

- ☐ contained in the international application in written form.
☐ filed together with the international application in computer readable form.
☐ furnished subsequently to this Authority in written form.
☐ furnished subsequently to this Authority in computer readable form.
☐ The statement that the subsequently furnished written sequence listing does not go beyond the disclosure in the international application as filed has been furnished.
☐ The statement that the information recorded in computer readable form is identical to the written sequence listing has been furnished.

4. The amendments have resulted in the cancellation of:

**INTERNATIONAL PRELIMINARY
EXAMINATION REPORT**

International application No. PCT/IL99/00467

- ☐ the description, pages:
☐ the claims, Nos.:
☐ the drawings, sheets:

5. ☐ This report has been established as if (some of) the amendments had not been made, since they have been considered to go beyond the disclosure as filed (Rule 70.2(c)):

(Any replacement sheet containing such amendments must be referred to under item 1 and annexed to this report.)

6. Additional observations, if necessary:

V. Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

1. Statement

Novelty (N)	Yes:	Claims	1-27
	No:	Claims	
Inventive step (IS)	Yes:	Claims	1-27
	No:	Claims	
Industrial applicability (IA)	Yes:	Claims	1-27
	No:	Claims	

- 2. Citations and explanations**
see separate sheet

VII. Certain defects in the international application

The following defects in the form or contents of the international application have been noted:
see separate sheet

VIII. Certain observations on the international application

The following observations on the clarity of the claims, description, and drawings or on the question whether the claims are fully supported by the description, are made:
see separate sheet

**INTERNATIONAL PRELIMINARY
EXAMINATION REPORT - SEPARATE SHEET**

International application No. PCT/IL99/00467

Reference is made to the following documents:

D1: EP-A-0 548 848

D2: WO-A-98/18103

D3: PATENT ABSTRACTS OF JAPAN vol. 017, no. 357 & JP-A-05 052950

D4: PATENT ABSTRACTS OF JAPAN vol. 1998, no. 09, & JP-A-10 111306

Re Item V

Reasoned statement under Rule 66.2(a)(ii) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

1. Document D1, which is regarded as the closest prior art, describes a method of optically detecting the displacement of a sheet of material 110 (p. 10, l. 36-41 and Fig. 14) with a Doppler displacement sensor 111 measuring the velocity v of the moving sheet (p. 8-9).

The problem the present invention seeks to solve is to provide an alternative method based on a Doppler shift for measuring displacement of a sheet.

The problem is solved by a method according to claim 1 wherein movement of a sheet 9 (see Fig. 1) at a position is detected (20) by determining if the power of Doppler shifted energy between radiation illuminating the position and radiation reflected at the position within a band of Doppler frequencies is above a threshold V_t .

No hint or indication to the above mentioned feature was found in the teachings of the cited prior art documents. Document D2 describes an edge detection method based on detecting the vibration (see Fig. 9) of a stylus 23 when a sheet moves over the stylus. Document D3 describes a Doppler method for measuring the speed and shapes of travelling bodies using two radar detectors 10a, 10b. Document D4 describes a Doppler motion detector based on speed detection.

Consequently, having regard to the available prior art, the subject-matter of claim 1 appears to be new and to involve an inventive step within the meaning of Articles 33(3) and 33(3) PCT.

**INTERNATIONAL PRELIMINARY
EXAMINATION REPORT - SEPARATE SHEET**

International application No. PCT/IL99/00467

2. The dependent claims 2-27 relate to particular embodiments of the method and likewise appear to meet the requirements of Articles 33(3) and 33(3) PCT.
3. Since it appears that the claimed invention can be made or used in a technological sense in industry, the claimed invention appears to have industrial applicability within the meaning of Article 33(4) PCT.

Re Item VII

Certain defects in the international application

A document reflecting the prior art described on page 1, l. 5-14, is not identified in the description (Rule 5.1(a)(ii) PCT). Further, the relevant background art disclosed in the document D1 is not mentioned in the description, nor is this document identified therein.

The description (e.g. page 2, l. 12-30) is not in conformity with the claims as required by Rule 5.1(a)(iii) PCT. Furthermore, the invention is not disclosed in such a way that the technical problem, or problems, with which it deals can be appreciated and the solution can be understood (see also the PCT International Preliminary Examination Guidelines, II-4.6).

The features of the claims are not provided with reference signs placed in parentheses (Rule 6.2(b) PCT).

Line 3, p. 2 and l. 10, p. 6 ('grating') contain some typographical errors.

On page 8, l. 32-33, it is stated that 'Circuit 50 also includes decision logic 74 which utilizes the outputs of the elements 62, 58, 78 and *amplifier* 76 to determine the velocity,...'. However in Fig. 4, the amplifier 70 is not connected directly to the decision logic 74 but via comparator or Schmitt trigger 76.

Re Item VIII

Certain observations on the international application

In claim 1, it is stated that the method comprises *illuminating* a position with

**INTERNATIONAL PRELIMINARY
EXAMINATION REPORT - SEPARATE SHEET**

International application No. PCT/IL99/00467

radiation. Illuminating is normally construed as involving light (i.e. visible or invisible) or in other words comprising optics. Consequently, it appears that either claim 4 is redundant or claim 1 is unclear (cf. Article 6 PCT).

The embodiment of the invention described on page 10, l. 32 (i.e. non-optical) does not fall within the scope of the claims. This inconsistency between the claims and the description leads to doubt concerning the matter for which protection is sought, thereby rendering the claims unclear (Article 6 PCT).